

WHAT IS CLAIMED IS:

1. A mechanism for pivotably coupling a notebook computer to a display thereof, the notebook computer including a housing having a forward recess with a keyboard received therein, comprising:

5 a substantially rectangular pivot board received in a rearward recess of the housing, the pivot board having a forward side hingedly coupled to the keyboard and a rearward side hingedly coupled to the display so that the display is adapted to pivot upward for adjusting height and position thereof relative to the housing; and

10 a plate-shaped latch device under the pivot board within the housing, the latch device comprising an elongated latch board at either side, a trigger between the latch boards, a finger tab on a top of the trigger, the finger tab being projected from an opening of the pivot board, and a latch member at an outer end of either latch board distal from the trigger, the latch members being  
15 projected from the housing to snap into side cavities of the pivot board for fastening the pivot board and the housing together,

wherein a forward movement of the trigger causes the latch members to move toward both left and right sides of the housing to disengage the latch members from the pivot board for being adapted to pivot both the pivot board  
20 and the display upward for adjusting both the height and the position of the display relative to the housing.

2. The mechanism of claim 1, wherein the latch board comprises a first slanted surface at one side adjacent the trigger and the trigger comprises a second slanted surface at either side adapted to matingly couple to the first slanted  
25 surface so that the forward movement of the trigger causes the first slanted surfaces to move toward both the left and the right sides of the housing, causes the latch members to move toward both the left and the right sides to disengage

the latch members from the pivot board, and both the pivot board and the display are adapted to pivot upward for adjusting both the height and the position of the display relative to the housing.

3. The mechanism of claim 2, further comprising a plurality of first apertures on the trigger so that a plurality of screws are adapted to drive through the first apertures to moveably fasten the trigger at a bottom of the housing.

4. The mechanism of claim 3, wherein a plurality of second apertures on either latch board so that a plurality of screws are adapted to drive through the second apertures to moveably fasten the latch board at the bottom of the housing.

5. The mechanism of claim 4, further comprising a lateral tunnel at either latch member facing inside of the housing and a first resilient member anchored in the tunnel, the first resilient member having an outer end biased against inside of the housing so that the forward movement of the trigger moves the latch boards to disengage the latch members from the pivot board by compressing the first resilient member, and a rearward movement of the trigger moves the latch boards inward to engage the latch members with the pivot board by expanding the first resilient member.

6. The mechanism of claim 1, further comprising two side holes in the rearward recess of the housing, a button in either hole, the button having an upper part protruded from the hole and a lower part concealed inside the housing, a disc-shaped seat having a diameter slightly larger than that of the hole disposed at a lower part of either button, and a second resilient member under either button, a bottom of the second resilient member being urged against the bottom of the housing so that in response to the disengagement of the latch members from the pivot board, the buttons are adapted to push the pivot board upward by an expansion of the second resilient members and clear the pivot board from the rearward recess of the housing.

7. The mechanism of claim 1, further comprising two spaced first pivot tubes at the forward side of the pivot board and two first pins inserted into the first pivot tubes and the housing with one ends of the first pins concealed in the first pivot tubes and the other ends thereof concealed in the housing respectively for  
5 pivotably coupling the pivot board and the housing together.

8. The mechanism of claim 7, further comprising two spaced second pivot tubes at the rearward side of the pivot board and two second pins inserted into the second pivot tubes and the display with one ends of the second pins concealed in the second pivot tubes and the other ends thereof concealed in the  
10 housing respectively for pivotably coupling the pivot board and the display together.